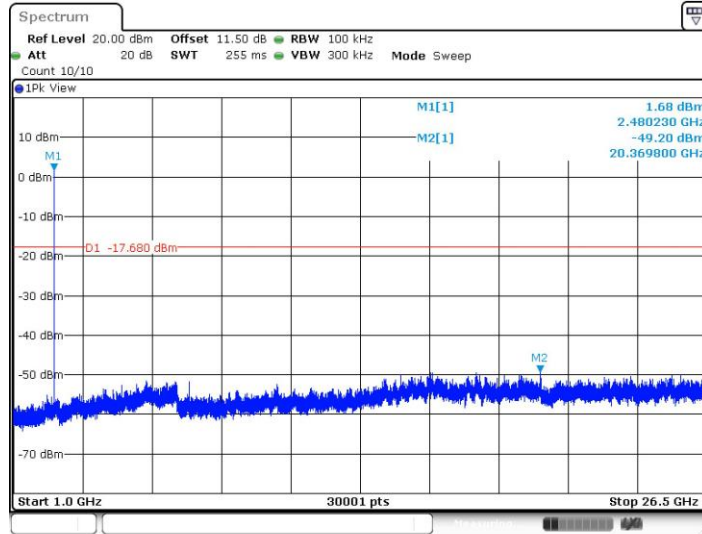




3DH1_Ant1_2480_1000~26500

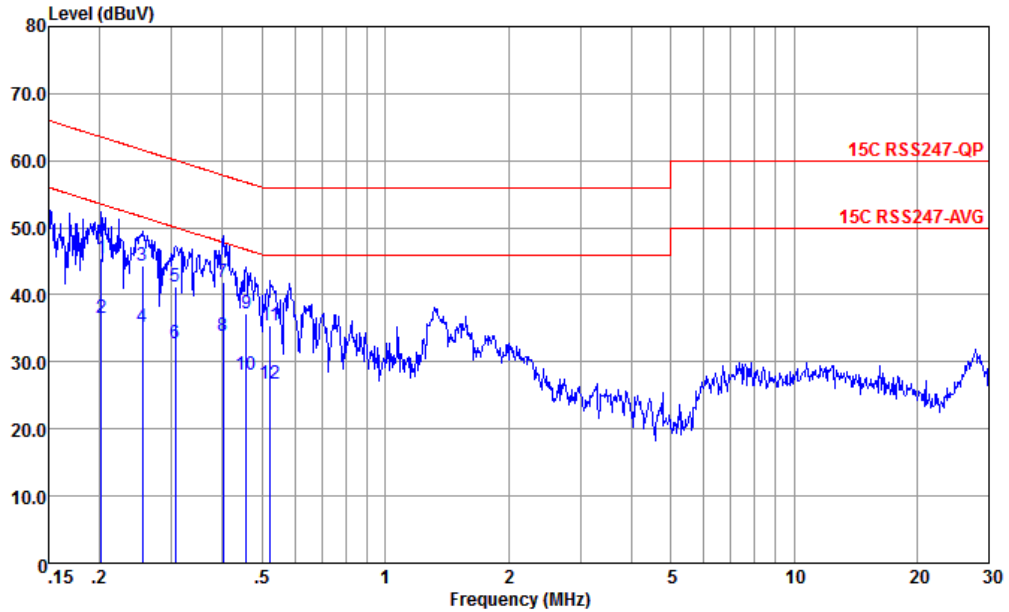


Date: 27.JUL.2023 14:19:57



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

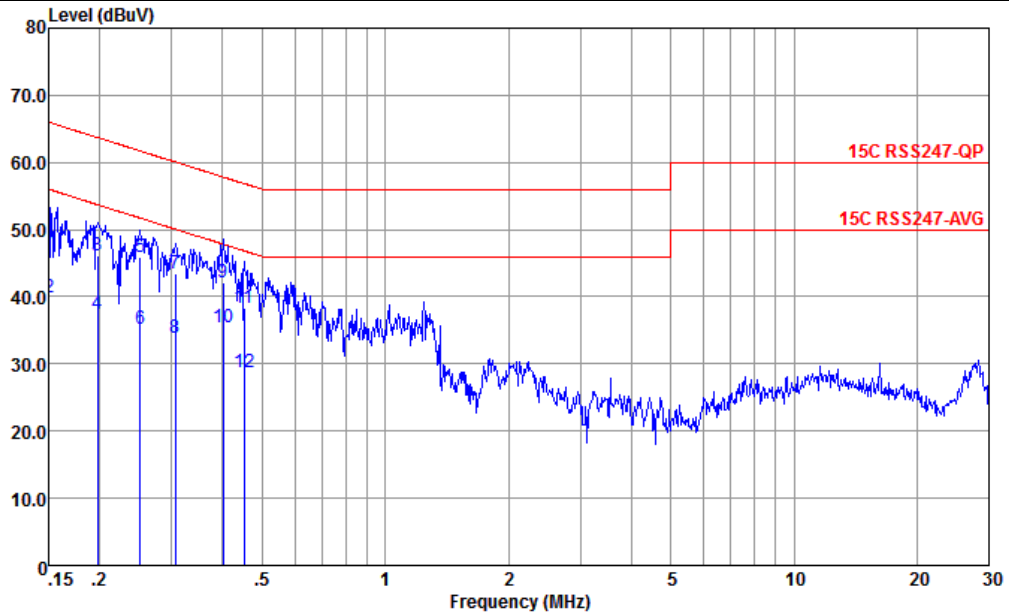


Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.202	45.55	-17.99	63.54	35.10	0.03	10.42	QP
2	0.202	36.57	-16.97	53.54	26.12	0.03	10.42	Average
3	0.255	44.31	-17.29	61.60	33.89	0.04	10.38	QP
4	0.255	35.21	-16.39	51.60	24.79	0.04	10.38	Average
5	0.307	41.28	-18.78	60.06	30.89	0.04	10.35	QP
6	0.307	32.68	-17.38	50.06	22.29	0.04	10.35	Average
7	0.402	41.80	-16.01	57.81	31.50	0.00	10.30	QP
8 *	0.402	33.80	-14.01	47.81	23.50	0.00	10.30	Average
9	0.456	37.13	-19.63	56.76	26.90	-0.02	10.25	QP
10	0.456	28.03	-18.73	46.76	17.80	-0.02	10.25	Average
11	0.524	35.37	-20.63	56.00	25.21	-0.04	10.20	QP
12	0.524	26.77	-19.23	46.00	16.61	-0.04	10.20	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.150	47.97	-18.03	66.00	37.50	0.04	10.43	QP
2	0.150	39.97	-16.03	56.00	29.50	0.04	10.43	Average
3	0.198	46.10	-17.61	63.71	35.63	0.05	10.42	QP
4	0.198	37.37	-16.34	53.71	26.90	0.05	10.42	Average
5	0.251	45.98	-16.76	61.73	35.60	0.00	10.38	QP
6	0.251	35.18	-16.55	51.73	24.80	0.00	10.38	Average
7	0.307	43.50	-16.56	60.06	33.19	-0.04	10.35	QP
8	0.307	33.80	-16.26	50.06	23.49	-0.04	10.35	Average
9	0.402	42.04	-15.77	57.81	31.80	-0.06	10.30	QP
10 *	0.402	35.34	-12.47	47.81	25.10	-0.06	10.30	Average
11	0.452	38.29	-18.56	56.85	28.10	-0.06	10.25	QP
12	0.452	28.69	-18.16	46.85	18.50	-0.06	10.25	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Test Engineer :	Chris Chen	Relative Humidity :	22~23℃
		Temperature :	41~42%

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	SISO	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	SISO	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	SISO	Bluetooth BR_GFSK	78	2480	1Mbps	-	-



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2370.32	52.58	74.00	-21.42	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	56.49	74.00	-17.51	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	4882.00	48.69	54.00	-5.31	H	AVERAGE	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.54	54.92	74.00	-19.08	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	51.38	74.00	-22.62	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	288.99	41.88	46.00	-4.12	H	AVERAGE	Pass	LF



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3	7206.00	50.56	66.85	-16.29	66.52	35.80	12.61	64.37	0.00	---	---	Peak																																																																																																																																	



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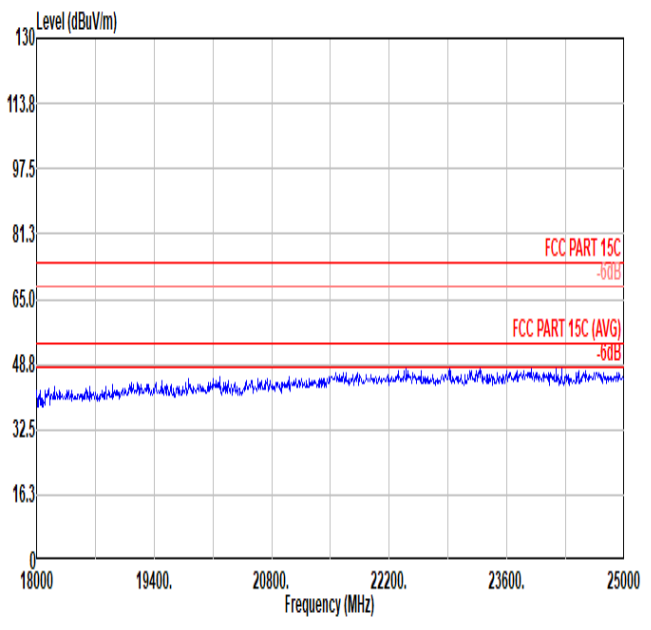
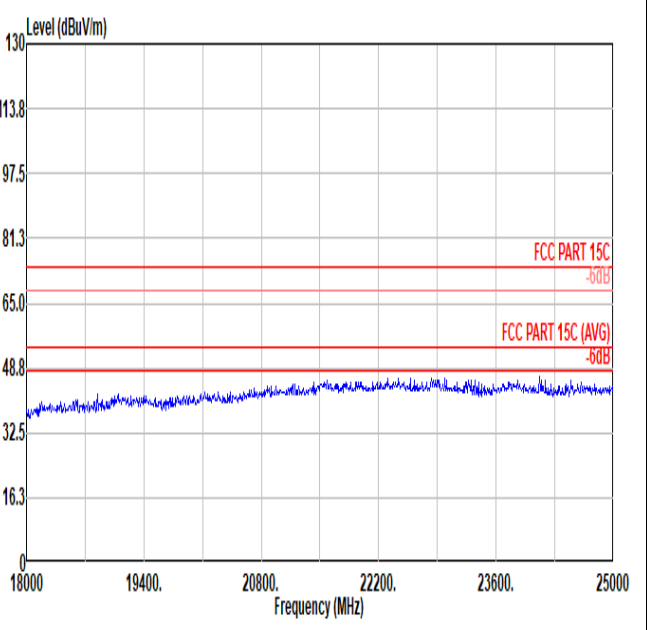


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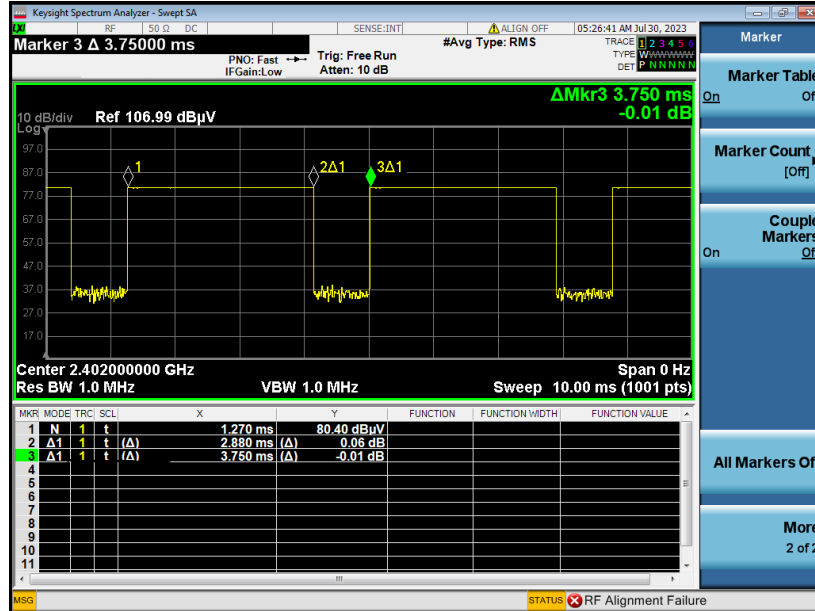
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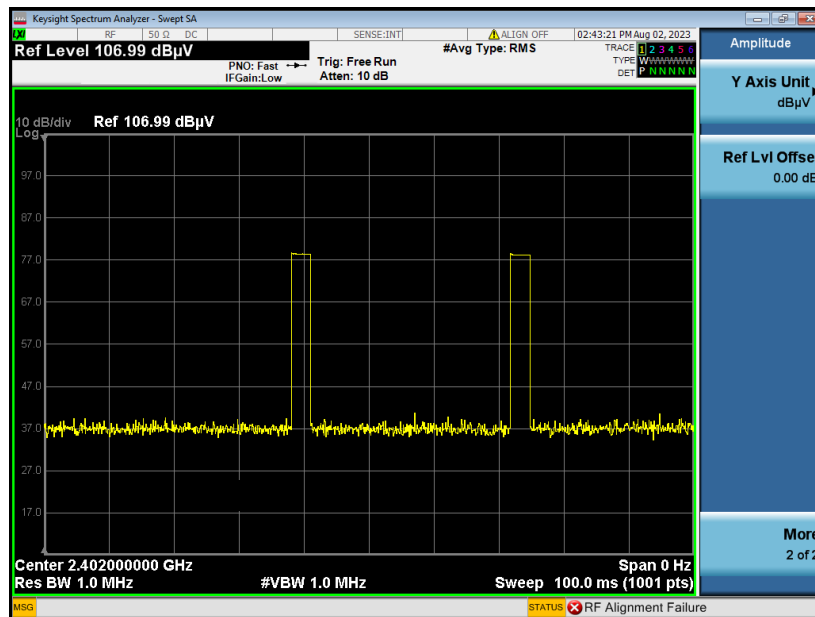
Mode	18-25G	
	Emission above 18GHz	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg		

Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.